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SERIAL NO.: 10/605,653

ATTORNEY DOCKET NO.: AUOP0022USA

SUBJECT: PRELIMINARY AMENDMENT & INFORMATION DISCLOSURE STATEMENT

TOTAL PAGES: 19 PAGES (INCLUDING COVER PAGE)

Winston Hsu 2004/08/31

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PTO/SB/97 (08-03)
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APPLICATION NUMBER: 10/605,653

PAPERS INCLUDED:

(1) Transmittal Form

1 PAGE

(2) Fee Transmittal

1 PAGE

(3) Preliminary Amendment

4 PAGES

(4) Information Disclosure Statement

11 PAGES

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	First Nameo inventor	Chuan-Pei Yu	<u> </u>				
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

5 Applicants: Chuan-Pei Yu and Kelly Wei

Filing Date: 10/15/2003

Art Unit: 2871

Serial No.: 10/605,653

Docket No.: AUOP0022USA

10

Title: BACKLIGHT MODULE

To: Commissioner for Patents

P.O. BOX 1450

15 Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37C.F.R.\$1.56.

20 Dear Sir:

This is an Information Disclosure Statement in accordance with the duty to disclose information material to patentability under 37 C.F.R. \$1.56. The applicant wishes to make of record the document listed on the accompanying form 1449A/PTO. It is respectfully requested that the examiner initials the cited reference on the form and that it be made of record in the application and that a copy of the initialed form be sent to the applicant with the next communication from the examiner.

10

Since the IDS is filed before the mailing date of a first Office action on the merits, a petition to request consideration of the information disclosure statement is hereby submitted according to 37 CFR \$1.97(b). The item contained in the information disclosure statement was first cited in a communication from the Taiwan Intellectual Property Office on June 15, 2004 for a counterpart foreign application. The applicant sincerely hopes that the examiner can consider the item contained in this IDS.

According to the requirement set forth in 37 C.F.R.\$1.98 and M.P.E.P. 609, the applicant is submitting a copy of the reference cited by the Taiwan Intellectual Property Office, Taiwanese patent application TW 556781 (filed Oct. 23, 2002). A concise explanation of the relevance in this application follows.

Regarding TW 566781, Fig. 3 and Fig. 4 appear to be the most relevant drawings and disclose a flat display structure with an LED light source comprising a substrate 10, a plurality of light emitting devices (LED) 12, a diffusing plate 14 positioned on the LED 12, a plurality of scattering apertures 15 under the diffusing plate 14, a first diffusing layer 16 positioned on the diffusing plate 14, a prism sheet 18 positioned on the first diffusing layer16, a second diffusing layer 20 positioned on the prism sheet 18, and a LED display 30. The structure of the flat display structure with the LED light source in this prior art is similar to that of the backlight module 50 shown

in Fig.2 and Fig.3 of the present invention. However, the prior art does not mention that a scattering pattern is installed in the inner wall of each scattering structure. Thus, the claimed invention of the present application is believed different from the prior art as shown in TW 566781.

Claim 1 has been amended in a preliminary amendment filed to distinguish from the TW 566781 patent. For convenience, the amended claim 1 of the present application is listed below:

- 1. A backlight module comprising:
 - a plurality of point light source generators;
- 15 a diffusing plate installed on the plurality of point light source generators for scattering the light generated by the plurality of point light source generators;
- a plurality of scattering apertures installed on
 the surface of the diffusing plate opposite to
 the plurality of point light source generators,
 wherein a scattering pattern is disposed over
 the inner wall of at least one scattering
 aperture; and
- 25 a diffusing sheet installed above the diffusing plate for diffusing the light emitted from the diffusing plate.

Please refer to Fig.2 and Fig.3 of the present invention. The backlight module 50 is installed under a display panel 52 and includes a plurality of point light source generators 54, a diffusing plate 56

installed on the point light source generators 54 for guiding the light generated by the point light source generators 54, a diffusing sheet 58 installed above the diffusing plate 56 for diffusing the light emitted from the diffusing plate 56, a prism sheet 60 installed above the diffusing sheet 58 for further modifying the direction of light from the diffusing sheet 58 in order to increase the luminance of the backlight module, and a brightness enhancement film (DBEF) 62 such as a 3MTM 10 DBEF installed above the prism sheet 60 for increasing the brightness of the backlight module 50. Moreover, the surface of the diffusing plate 56 includes a plurality of scattering patterns (partially enlarged in Fig. 3) for scattering the light generated 15 by the point light source generators 54. The scattering patterns 64 are composed of arc shaped trenches or V-trenches on the surface of the diffusing plate 56, and can be horizontally lined, vertically lined, obliquely lined or cross-lined for a better scattering 20 performance.

In contrast with the prior art cited above, the amended claim 1 of the present invention contains the limitation of the scattering pattern 64 being installed in the inner wall of each scattering aperture. However, the prior art does not teach or suggest the scattering pattern 64 or any related structures. It is therefore believed that the amended claim 1 is substantially different from the prior art patent TP No. 566781.

Sincerely,

5 Window Hou Date: 8/31/2009

Winston Hsu, Patent Agent No. 41,526

P.O. BOX 506

Merrifield, VA 22116

U.S.A.

10 e-mail: winstonhsu@naipo.com.tw

(Please contact me by e-mail if you need a telephone communication and I will return your call promptly.)